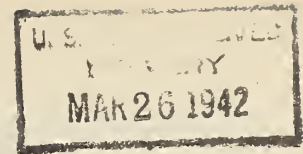


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Volume 8

January 1942

No. 1

CONSTRUCTION



HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D. C.

CRADLES AND MOUNTS FOR MOTOR-TRAINING EQUIPMENT

Many types of cradles and mounts for motors and chassis units have been designed and used in CCC camps to facilitate training in auto mechanics. With the present emphasis on mechanical training for national defense, there is urgent need for these devices in all camps. This issue of CONSTRUCTION HINTS contains designs for mounts which may be made in camps by classes in welding, blacksmithing, or carpentry.

Drawing A presents a movable mount for a motor. The dimensions apply to Chevrolet unit, but by slight dimensional changes, this design can be adapted to other makes of motors. A plan for a more simple but stationary mount is presented in drawing B. In drawing C, design for a transmission stand is presented. Although the design calls for wood construction, the general plan may be followed if angle iron is used. Drawing D presents a light support for rear and units, which may be constructed from ordinary 2 x 4 and 2 x 6 timbers. This support may also be constructed from metal.

Three of the plans presented were produced by CCC Camp S-66, Mass., the other one was submitted by the Regional Office, Region 4.

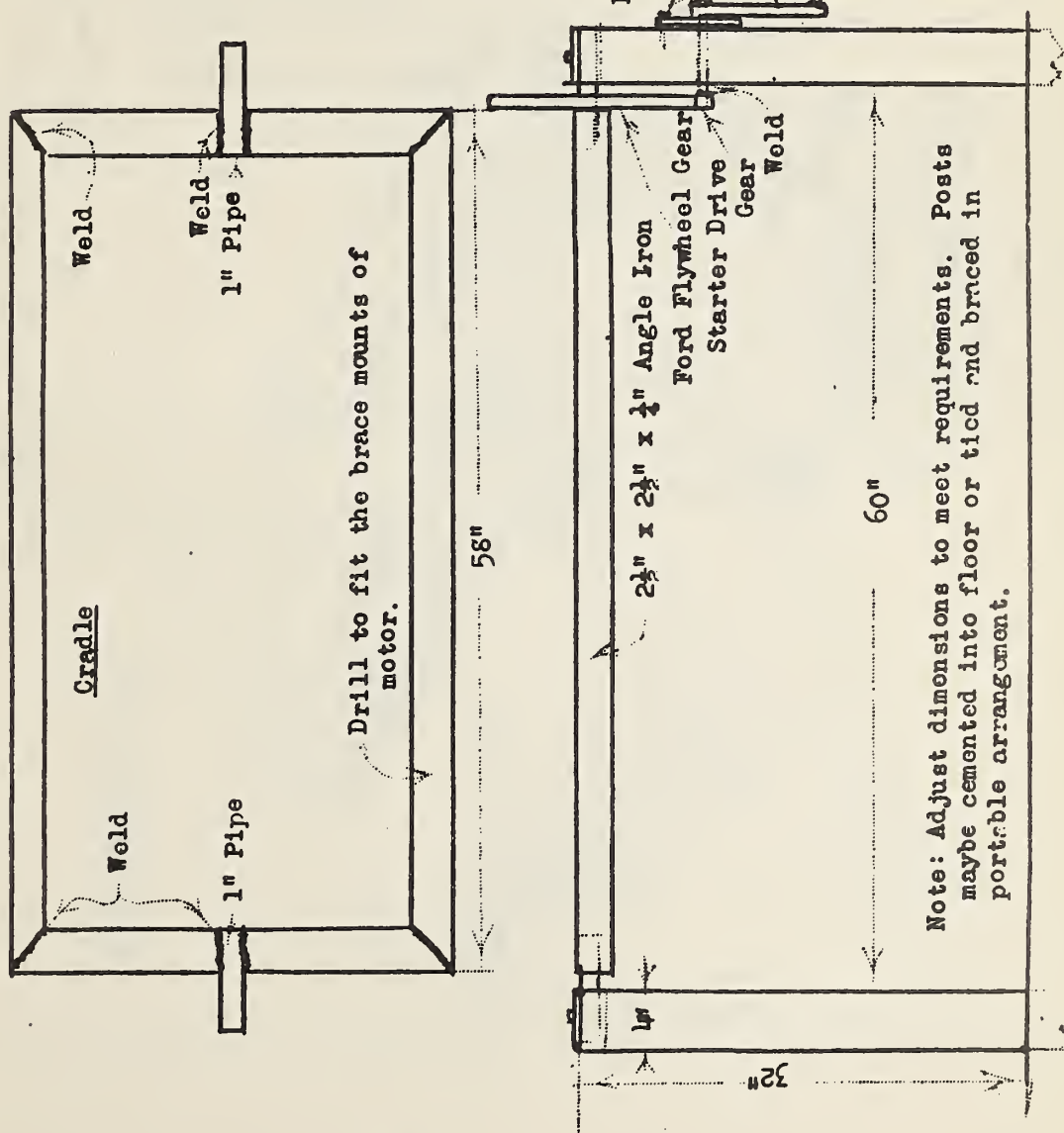


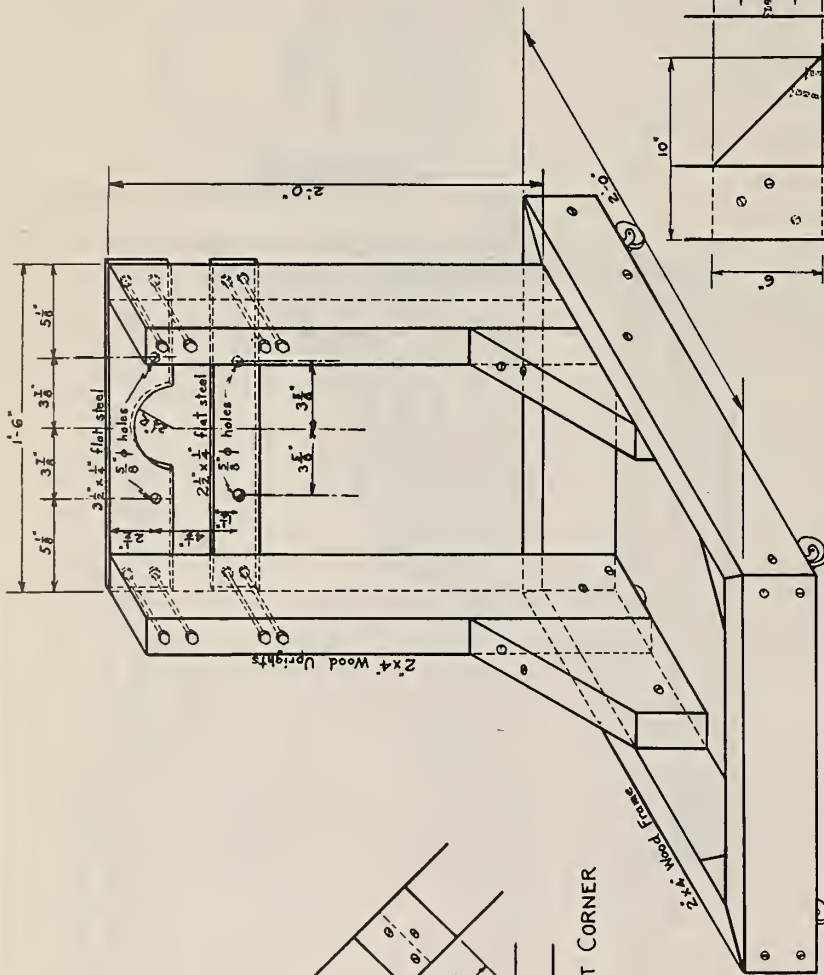
DISPLAY RACK--For standard truck and automobile motors.

Note: The rack as here diagrammed fits and holds a standard motor similar to the frame of the truck or automobile. Mounted on this display rack the motor can easily be revolved in such a way trainees can see the motor from any angle. Older types of motors can be replaced by later models with little changes.

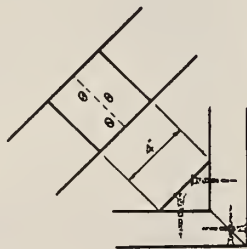
Bill of Materials::

- 15ft Angle iron $2\frac{1}{2}" \times 2\frac{1}{2}" \times \frac{1}{4}"$
 8ft Pipe $\frac{1}{2}"$
 18in Pipe $1"$
 4in Pipe $1\frac{1}{2}"$ ---sawed in half to
 form lower bearing for cradle
 1 Fly wheel gear---(Ford) 80#
 1 Starter drive gear)
 1 Disk $6"$
 2 Disk $\frac{1}{2}"$ ---to cap pipe posts
 6in Rod-- $5/8"$
 1 Crank
 1 Pin $5/16"$

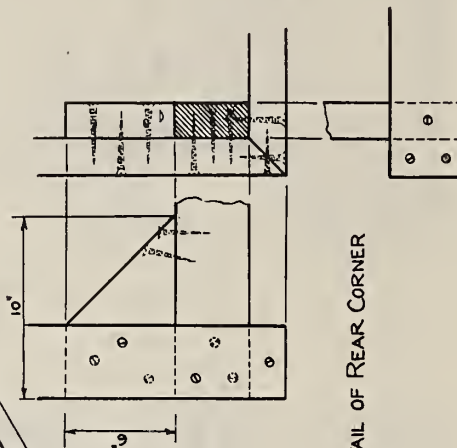




DETAIL OF FRONT CORNER



NOTES
Wood to be red oak or its equivalent.
Bolts to be $\frac{1}{2}$ " diameter



DETAIL OF REAR CORNER

CCC Camp S-66 So. Lee Mass.

DESIGN FOR A

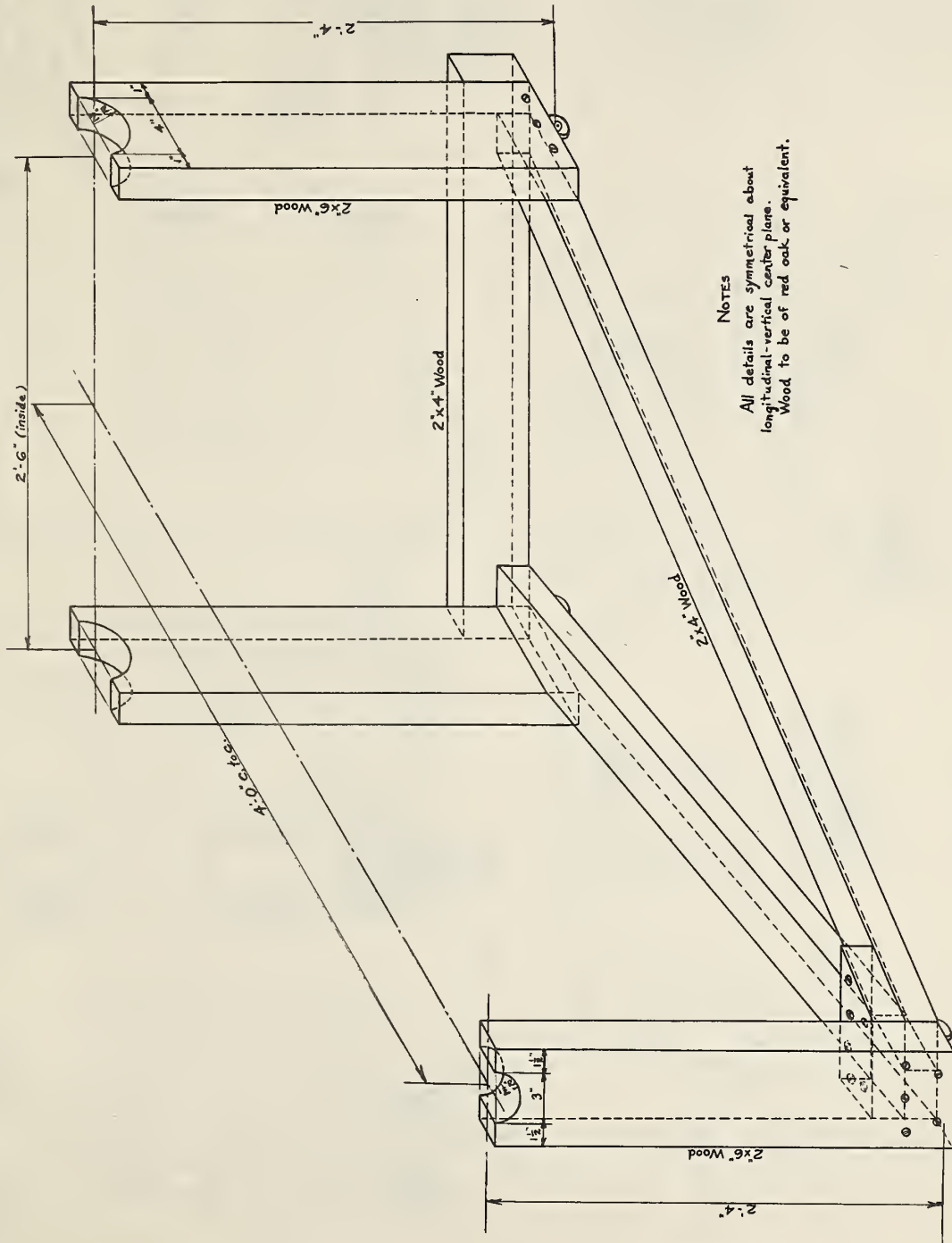
CHEVROLET TRANSMISSION STAND

T.E. Battles, Superintendent

W.F. Pomphrey, Superv. Mech.

September 1940 Drawn by E.C.O.

Scale $\sim \frac{1}{4}$ inch = 1 inch



NOTES

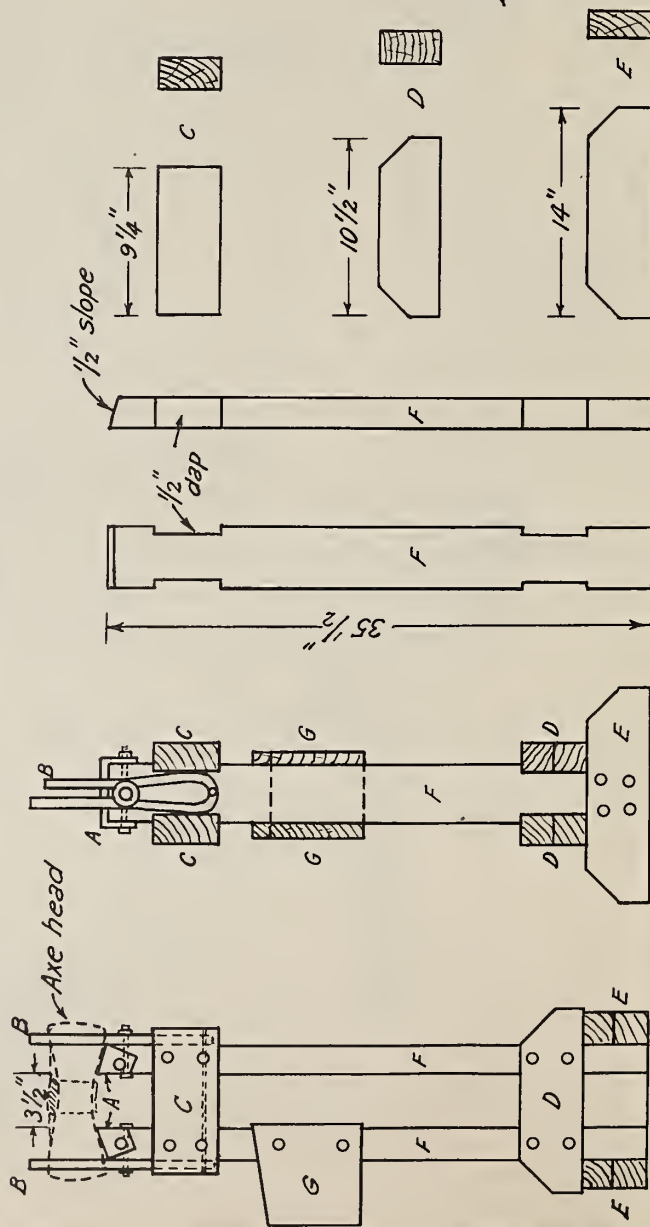
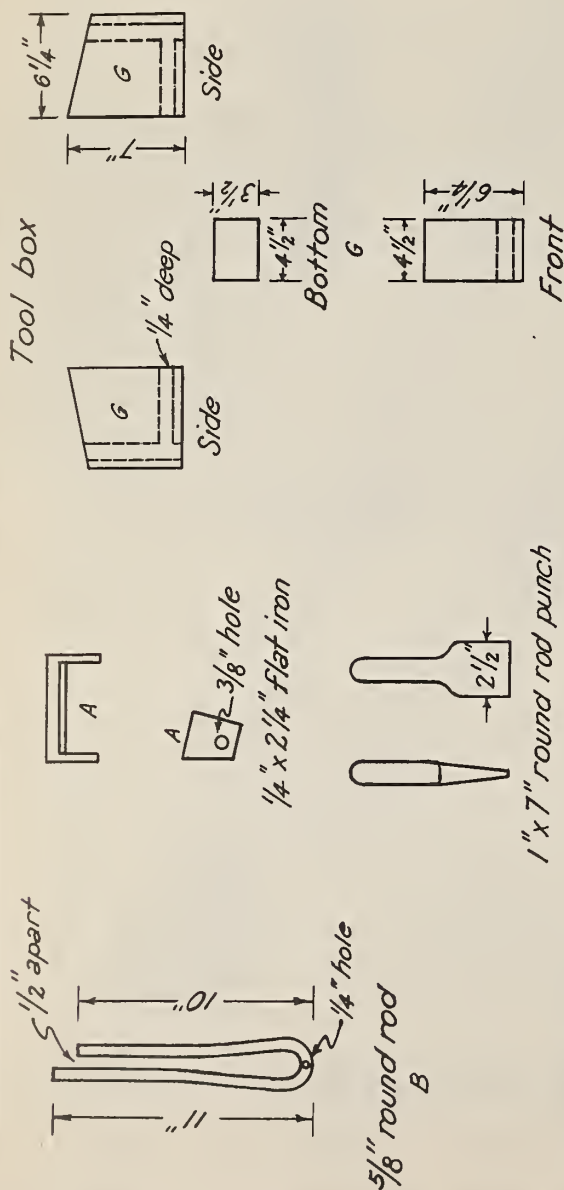
All details are symmetrical about longitudinal-vertical center plane.
Wood to be of red oak or equivalent.

DETAIL OF REAR CORNER

CCC Camp S-66 So. Lee, Mass.
DESIGN FOR A
CHEVROLET REAR END STAND
T.E. Battles, Superintendent
W.F. Bamphrey, Supervising Mechanic
September 1940 Drawn by E.C.O.
Scale - $\frac{1}{4}$ " = 1"

" D "

BILL OF MATERIAL		
No.	Size	Material
2	2" x 4" x 35 1/2"	Oak lumber
2	2" x 4" x 14"	"
2	2" x 4" x 10 1/2"	"
2	2" x 4" x 9 1/4"	"
2	1" x 7" x 6 1/4"	"
1	1" x 6 1/4" x 4"	"
1	1" x 3 1/2" x 4"	"
2	5/8" x 25"	Round Rod
2	1/4" x 2 1/2"	Carriage bolts
2	3/8" x 2 1/2"	"
10	3/8" x 6"	"
8	3/8" x 4"	"
40	1/2"	"
2	1/4" x 2 1/4" x 9"	Flat cut washers
2	3/8" x 5"	Flat iron bolts

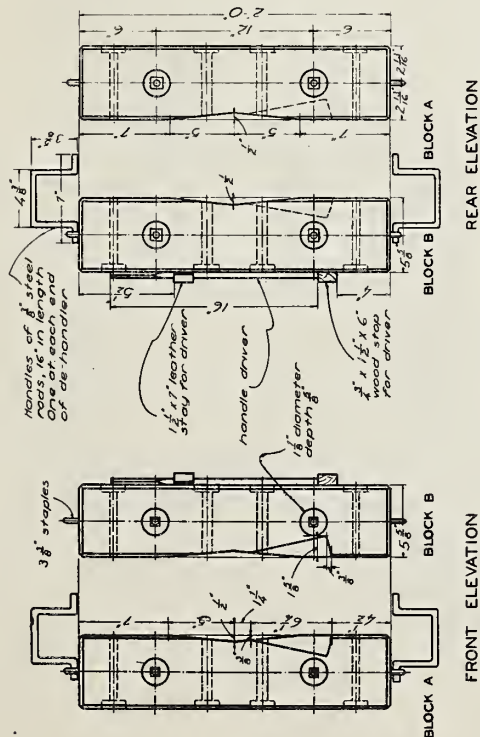


R-2 FOREST SERVICE BLACK HILLS NAT'L. FOREST SOUTH DAKOTA **AXE HEAD VISE** (For installing new handles)

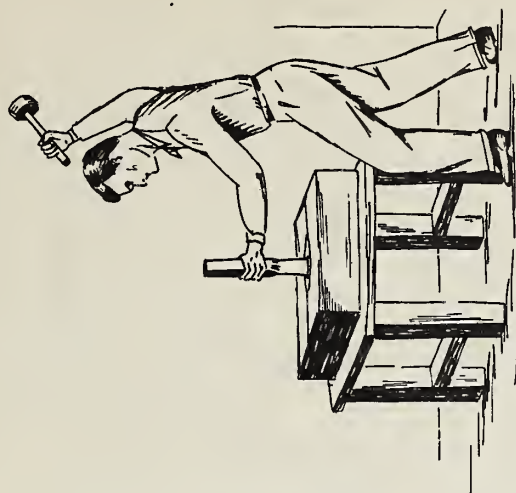
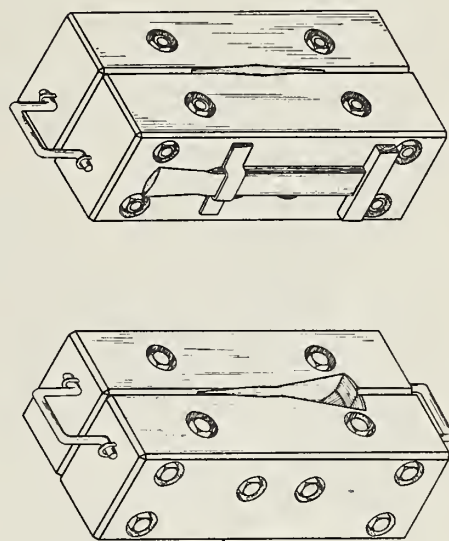
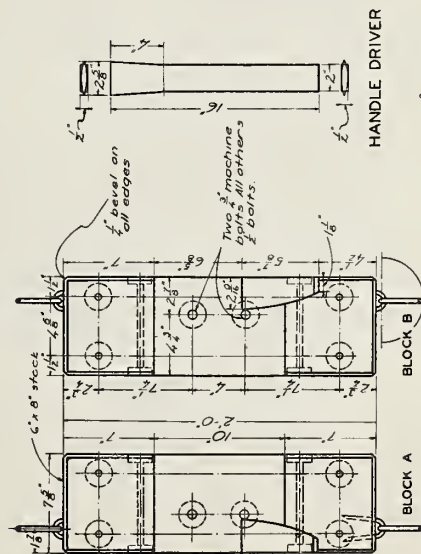
Submitted by
Wilbur J. Pfeiffer
Supt. CCC Camp 7-6, Roubidoux, S.D.

Note: Saw off broken handle close to head. Place head in vise with small end of eye up. Advantage of this device is safety.

Enrollee W. J. Hallman has produced an excellent sketch.



BILL OF MATERIALS	
lumber stock	2 pcs 6" x 8" x 24"
steel rod	2 pcs 1/2" x 16"
machine bolts	8 1/2" x 12"
machine bolts	2 1/2" x 12"
washers	16 1/2" x 12"
washers	4 1/2" x 12"
strap iron driver	1 pc 1/2" x 24" x 16"
wrought staples	4 3/8" x 1 1/2"
harness leather	1 pc 1 1/2" x 7"
screws	8 1/2" x 1 1/2"
lumber stock	1 pc 1/2" x 1 1/2" x 6"



SAFETY DE-HANDLER FOR REMOVING HANDLES FROM AXES AND PULASKIS

DIRECTIONS FOR USE:

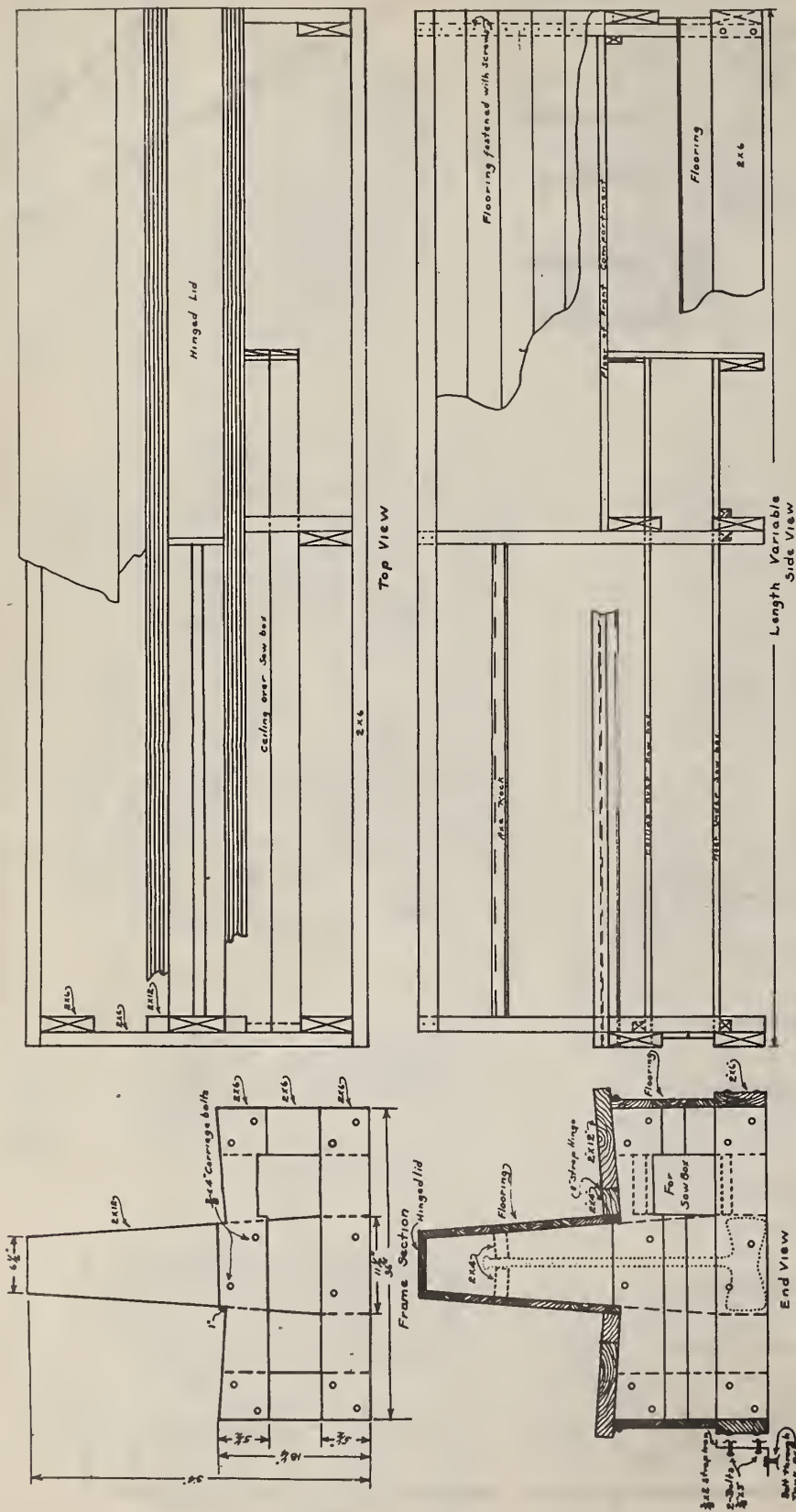
1. SAW TOOL HANDLE OFF FLUSH WITH THE HEAD.
 2. PLACE THE HEAD IN THE PROPER SLOT.
 3. HOLD THE TOOL WITH THE HANDS ON THE EDGES OF THE EYE AND POUND THE DRIVER WITH A HEAVY HAMMER.
- THE TIGHTEST HANDLES CAN BE REMOVED EASILY WITHOUT HAZARD TO THE OPERATOR.

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
F. E. THURMAN, REGIONAL FORESTER

SAFETY DE-HANDLER
FOR AXES AND PULASKIS

DESIGNED BY W. J. HALLMAN, CIVIL ENGINEER
SUBMITTED BY F. E. THURMAN, REGIONAL FORESTER
DRAWN BY W. J. HALLMAN
SCALE 3/4" = 1'-0"
CHECKED BY W. J. HALLMAN
APPROVED BY F. E. THURMAN, REGIONAL FORESTER

KNOWN AND TRUSTED BY
ENROLLEE W. J. HALLMAN
AT THE FOREST SERVICE
AT THE CAMP F. E. THURMAN



STATE OF OREGON C.C.C.
TRUCK SEAT

Designed by B. Mark Johnson
CCC Camp Nehalem P-221
Sketch by L.W. Amort 4-19-71
Approved *[Signature]*

